

Amendment under 37 CFR 1.111 and Submission of  
Proposed Drawing Corrections  
Serial No. 09/769,901  
August 27, 2002

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Submitted herewith is a marked-up version of the  
specification and claims to show changes made in the foregoing  
Amendment.

IN THE CLAIMS

Claims 1 and 6 have been amended as follows:

--1. (Amended) A method of controlling an induction  
generator, said method comprising the steps of:

measuring a plurality of current amounts in the generator  
using a plurality of current sensors;

transforming the plurality of current amounts into a two  
phase reference system;

measuring a DC voltage supplied to an inverter, the inverter  
being operatively connected to the generator;

measuring a plurality of [voltage amounts in the generator  
using a plurality of voltage sensors] generator voltages;

transforming the plurality of [voltage amounts] generator  
voltages into the two phase reference system;

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calculating a flux in the generator using the currents and the voltages obtained by said steps of transforming so as to obtain a magnitude and position of the flux;

comparing the calculated flux magnitude with a desired flux to determine a flux error amount, the flux error amount being input to a flux regulator;

determining a d-axis voltage so as to reduce the flux error amount;

comparing a desired DC voltage with the measured DC voltage to determine a voltage error amount, the voltage error amount being input to a voltage regulator;

determining a desired torque amount so as to reduce the voltage error amount;

comparing the desired torque amount with an estimated torque amount to determine a torque error amount, the torque error amount being input to a torque regulator;

determining a q-axis voltage so as to reduce a torque error amount; and

transforming the d-axis voltage and the q-axis voltage to stationary reference frame, n-phase voltages using the position of the flux, wherein n is substantially equal to a number of generator phases.--

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-- 6. (Amended) A method of controlling an induction generator, said method comprising the steps of:

- measuring a plurality of current amounts in the generator using a plurality of current sensors;
- transforming the plurality of current amounts into a two phase reference system;
- measuring a DC voltage supplied to an inverter, the inverter being operatively connected to the generator;
- measuring a plurality of [voltage amounts in the generator using a plurality of voltage sensors] generator voltages;
- transforming the plurality of [voltage amounts] generator voltages into the two phase reference system;
- calculating a flux in the generator using the currents and the voltages obtained by said steps of transforming so as to obtain a magnitude and position of the flux;
- comparing the calculated flux magnitude with a desired flux to determine a flux error amount, the flux error amount being input to a flux regulator;
- determining a d-axis voltage so as to reduce the flux error amount;

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determining a desired torque amount by obtaining a desired generator shaft torque amount and converting the desired generator shaft torque amount to the desired torque amount by a mapping function;

comparing the desired torque amount with an estimated torque amount to determine a torque error amount, the torque error amount being input to a torque regulator;

determining a q-axis voltage so as to reduce a torque error amount; and

transforming the d-axis voltage and the q-axis voltage to stationary reference frame n-phase voltages using the position of the flux, wherein n is substantially equal to a number of generator phases.--